

Features Include:

- Example pin out for Bluetooth integration
- WLAN co-existence allocation
- USB connection

BlueCore™ MDC Pin Out Single Chip Bluetooth System

Application Note

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General Description

The mobile audio and modem daughter specification (MDC) sets out provision for the integration of audio and modem solutions based on the AC97 CODEC specification into notebooks.

Reductions in the size of modem chipset solutions open up the possibility of including other technologies on the standardised MDC form factor. In order to use this form factor to integrate Bluetooth onto an MDC based card, reserved pins must be used for the Host-Controller Interface. Additional pins may also be required for 802.11b co-existence signaling.

The **BlueCore** MDC pin out specification given in Table 1 is recommended by CSR and may form the basis of an industry standard. The pin out given in the table modifies pins 11, 12, 13, 14 and 17 of the original specification. The USB signals are routed to the appropriate pins on BlueCore via series resistors. The WLAN and BT active signals should also include series resistors of at least 10K and connect to any unused PIO line as shown in Figure 1.

Applications

- Bluetooth integration into notebooks
- WLAN co-existence

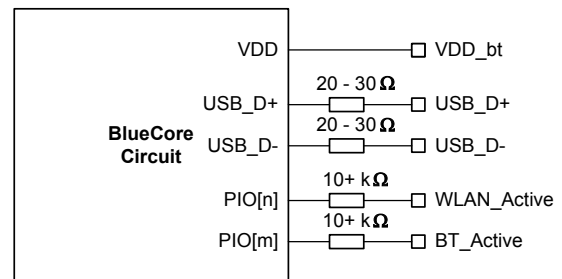


Figure 1: Bluetooth and WLAN Co-Existence Interface Using BlueCore

Pin	Signal	Pin	Signal
1	MONO_OUT/PC_BEEP	2	AUDIO_PWRDN
3	GND	4	RESERVED
5	RESERVED	6	RESERVED
7	RESERVED	8	GND
9	RESERVED	10	5V_main
11	WLAN_Active	12	USB D+
13	BT_Active	14	USB D-
15	GND	16	PRIMARY_DN
17	3.3V_bt	18	5V_digital
19	GND	20	GND
21	3.3V_main	22	AC97_SYNC
23	AC97_DATA_OUT	24	AC97_SDATA_INB
25	AC97_RESET#	26	AC97_SDATA_INA
27	GND	28	GND
29	AC97_MSTRCLK	30	AC97_BITCLK

Table 1: MDC Pin Out with Bluetooth Signaling

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